

Form PTO-1449

Applicant: John G. Carman

Serial No.: 09/576,623

Filing Date: May 23, 2000

For: METHODS FOR PRODUCING APOMICTIC PLANTS

Att'y Docket No. T4088.Cont

Group: 1638

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

Examiner Initial*	Patent Number	Issue Date	Name	Class	Sub Class	Filing Date
A1	5,710,367	01/20/98	Kindiger et al.	800	200	09/22/95

Other Documents

(including author (if listed), title, relevant pages, date of publication including at least month and year).

Examiner

Initial*

A2

Battaglia E., The Evolution of the Female Gametophyte of Angiosperms: an Interpretive Key, *Annali di Botanica* 47: 7-144 (1989).

A3

Bayer, R. J., Evolution of Polyploid Agamic Complexes with Examples from *Antennaria* (Asteraceae), *Opera Botanica* 132: 53-65 (1996).

A4

Bell, P. R., Apospory and Apogamy. Implications for Understanding the Plant Life Cycle, *International Journal of Plant Sciences* 153: S123-S136 (1992).

A5

Bennett, S.T. et al., Spatial Separation of Ancestral Genomes in the Wild Grass *Milium montianum* Parl., *Annals of Botany* 70: 111-118 (1992).

A6

von Bothmer, R. et al., Complex Interspecific Hybridization in Barley (*Hordium vulgare* L and the Possible Occurrence of Apoximis, *Theoretical and Applied Genetics* 76: 681-690 (1988).

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

Applicant: John G. Carman
 Serial No.: 09/576,623
 Filing Date: May 23, 2000
 For: METHODS FOR PRODUCING APOMICTIC PLANTS

Att'y Docket No. T4088. Cont
 Group: 1638

A7

Carman, John G., Asynchronous Expression of Duplicate Genes in Angiosperms May Cause Apomixis, Bispority, Tetraspority, and Polyembryony, Biological Journal of the Linnean Society 61, 51-94 (1997).

A8

Carman, J. G., Gametophytic Angiosperm Apomixis and the Occurrence of Polyspority and Polyembryony Among Their Relatives, Apomixis Newsletter 8: 39-53 (1995).

A9

Carman, J.G., Phylogeny of Apomictic, Polysporic and Polyembryonic Angiosperms: Evolutionary and Regulatory Implications, Abstract of a paper presented at the international conference, Harnessing Apomixis Sep 25-27, College Station, Texas (1995).

A10

Carman, J. G. et al., Comparative Histology of Cell Walls During Meiotic and Apomeiotic Megasporogenesis in Two Hexaploid Australian *Elymus* species, Crop Science 31: 1527-1532 (1991).

A11

Carman, J. G. et al., Aposporous Apomixis in *Schizachyrium* (Poaceae: Andropogoneae), Crop Science 22: 1252-1255 (1982).

A12

Crane, C. F. et al., Mechanisms of Apomixis in *Elymus rectisetus* from Eastern Australia and New Zealand, American Journal of Botany 74: 477-496.

A13

DeWet, J.M.J. et al., Gametophytic Apomixis and Evolution in Plants, Taxon 23: 689-697 (1974).

A14

Ellerstrom S., Apomictic Progeny from *Raphanobrassica*, Hereditas 99: 315 (1983).

A15

Ellerstrom S. et al., Sterility and Apomictic Embryo Sac Formation in *Raphanobrassica*, Hereditas 87: 10 (1977).

A16

Evans, L. T. et al., Environmental Control of Reproduction in *Themeda australis*, Australian Journal of Botany 17: 375-389 (1969).

A17

Hussey, M.A. et al., Influence of Photoperiod on the Frequency of Sexual Embryo Sacs in Facultative Apomictic Buffelgrass, Euphytica 54: 141-145 (1991).

A18

Jankun, A. et al., Apomixis at the Diploid Level in *Sorbus eximia* (Embryological Studies in *Sorbus* 3), Průha 60: 193-213 (1988).

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

Applicant: John G. Carman
 Serial No.: 09/576,623
 Filing Date: May 23, 2000
 For: METHODS FOR PRODUCING APOMICTIC PLANTS

Att'y Docket No. T4088.Cont
 Group: 1638

A19

Jefferson, R. A. et al., The Potential Impacts of Apomixis: a Molecular Genetics Approach. In Sobral BWS (ed), The Impact of Plant Molecular Genetics, Birkhauser, Boston (1996).

A20

Koltunow, A.m. et al., Apomixis: Molecular Strategies for the Generation of Genetically Identical Seeds Without Fertilization, Plant Physiology 108: 1345-1352 (1998).

A21

Knox, R. B., Apomixis: Seasonal and Population Differences in a Grass, Science 157: 325-326 (1967).

A22

Knox, R. B. et al., Experimental Control of Aposporous Apomixis in a Grass of the Andropogoneae, Botanisk Notiser 116: 127-141 (1963).

A23

Leblanc, O. et al., Megasporogenesis and Megagametogenesis in Several *Tripsacum* species (Poaceae), American Journal of Botany 82: 57-63 (1995).

A24

Leblanc, O. et al., Timing of Megasporogenesis in *Tripsacum* species (Poaceae) as Related to the Control of Apomixis and Sexuality, Polish Botanical Studies 8: 75-81 (1994).

A25

Marshall, D. R. et al., The Evolution of Apomixis, Heredity 47: 1-15 (1981).

A26

Mogie, M., A Model for the Evlution and Control of Generative Apomixis, Biological Journal of the Linnean Society 35: 127-153 (1988).

A27

Mujeeb-Kazi, A., Apomictic Progeny Derived from Intergeneric *Hordium-Triticum* Hybrids, The Journal of Heredity 72: 284-285 (1981).

A28

Mujeeb-Kazi, A., Apomixis in Trigenic Hybrids of *Triticum aestivum*/*Leymus racemosus*/*Thinopyrum elongatum*, Cytologia 61: 15-18 (1996).

A29

Naumova, T. N. et al., Quantitative Analysis of Aposporous Parthenogenesis in *Poa pratensis* Genotypes, Acta Botanica Neerlandica 42: 299-312 (1993).

A30

Naumova, T. N. et al., Ultrastructural Characteristics of Apospory in *Panicum maximum*, Sexual Plant Reproduction 8: 197-204 (1995).

A31

Nogler, G. A., Genetics of Gametophytic Apomixis - a Historical Sketch, Polish Botanical Studies 8: 5-11 (1994).

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

Applicant: John G. Carman
 Serial No.: 09/576,623
 Filing Date: May 23, 2000
 For: METHODS FOR PRODUCING APOMICTIC PLANTS

Att'y Docket No T4088.Cont

Group: 1638

A32

Nordborg, B., Embryological Studies in the Sanguisorba Minor Complex (Rosaceae), Botaniska Notiser 120: 109-119 (1967).

A33

Ozians-Akins, P. et al., Transmission of the Apomictic Mode of Reproduction in Pennisetum: Co-Inheritance of the Trait and Molecular Markers, Theoretical and Applied Genetics 85: 632-638 (1993).

A34

Peacock, J., Genetic Engineering and Mutagenesis for Apomixis in Rice, In: Wilson K.J., ed. Proceeding of the International Workshop on Apomixis in Rice, Changsha, China. New York: Rockefeller Foundation 11-22 (1993).

A35

Peel, Michael D. et al., Megasporocyte Callose in Apomictic Buffelgrass, Kentucky Bluegrass, Pennisetum squamulatum Fresen, Tripsacum L., and Weeping Lovegrass, Crop Science, Vol. 37, No. 3.

A36

Peel, Michael D. et al., Meiotic Anomalies in Hybrids Between Wheat and Apomictic Elymus rectisetus (Nees in Lehm.) A. Löve & Connor, Crop Sci. 37, 717-723 (1997).

A37

Saran, S. et al., Environmental Control of Reproduction in Dichanthium intermedium, Journal of Cytology and Genetics 11: 22-28 (1976).

A38

Sherman, R.A. et al., Apomixis in Diploid X Triploid Tripsacum dactyloides hybrids, Genome 34: 528-532 (1991).

A39

Vielle Calzada J-P et al., Apomixis: the Asexual Revolution, Science 274: 1322-1323 (1996).

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

JAN 17 2002

PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. T4088.CONT

SERIAL NO. 09/576,623

LIST OF PRIOR ART CITED BY APPLICANT

APPLICANT JOHN G. CARMAN

FILING DATE May 23, 2000

GROUP

1638

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						
	AM						

OTHER PRIOR ART (Including Author, Title, Volume and/or Name of Publication, Relevant Pages and Date [as available])

	AN		Quarin, Seasonal changes in the incidence of apomixis of iploid, triploid, and tetraploid plants of Paspalum cromoerhizon. Euphytica. Vol. 35, pp. 515-522. (Abstract only) 1986
	AO		That, New developments in hybrid rice. International Rice Commission Newsletter. Vol. 42, pp. 28-34. (Abstract only) 1993
	AP		Bashaw et al., Apomictic grasses. In: Principles of Cultivar Development Vol. 2, Fehr (ed.), Macmillan Publishing Company, New York, pp. 40-82. 1987
	AQ		Hanna et al., Apomixis: Its identification and use in plant breeding. Crop Science. Vol. 27, pp. 1136-1139. 1987
	AR		Hovin et al., Apomixis in Kentucky bluegrass. Crop Science. Vol. 16, pp. 635-638. 1976
	AS		Nogler, Genetics of gametophytic apomixis - a historical sketch. Polish Botanical Studies. Vol 8, pp. 5-11. 1994

EXAMINER

Francis Moore

DATE CONSIDERED

3/28/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

Applicant: John G. Carman

Serial No.: 09/576,623

Filing Date: May 23, 2000

For:

METHODS FOR PRODUCING APOMICTIC PLANTS

Att'y Docket No. T4088.Cont

Group:

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

C:\MKK\T4088BOP.1449.fm

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
